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## RAW SEQUENCE LISTING

DATE: 11/12/2001

PATENT APPLICATION: US/09/824,787B

TIME: 18:33:38

Input Set : A:\seqlist\_1821 0040001.txt

Output Set: N:\CRF3\11122001\I824787B.raw

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P. 5

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4 <110> APPLICANT: Zauderer, Maurice
5     Evans, Elizabeth E.
6     Borrello, Melinda A.
8 <120> TITLE OF INVENTION: A Gene Differentially Expressed in Breast and
9     Bladder Cancer, and Encoded Polypeptides
11 <130> FILE REFERENCE: 1821.0040001
13 <140> CURRENT APPLICATION NUMBER: 09/824,787B
14 <141> CURRENT FILING DATE: 2001-04-04
16 <150> PRIOR APPLICATION NUMBER: 60/194,463
17 <151> PRIOR FILING DATE: 2000-04-04
19 <160> NUMBER OF SEQ ID NOS: 147
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 354
25 <212> TYPE: DNA
26 <213> ORGANISM: Homo sapiens
28 <220> FEATURE:
29 <221> NAME/KEY: CDS
30 <222> LOCATION: (7)..(354)
32 <400> SEQUENCE: 1
33 gccgcg atg agc ggg gag ccg ggg cag acg tcc gta gcg ccc cct ccc      48
34     Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro
35         1             5             10
37 gag gag gtc gag ccg ggc agt ggg gtc cgc atc gtg gtg gag tac tgt      96
38 Glu Glu Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys
39 15             20             25             30
41 gaa ccc tgc ggc ttc gag gcg acc tac ctg gag ctg gcc agt gct gtg      144
42 Glu Pro Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val
43         35             40             45
45 aag gag cag tat ccg ggc atc gag atc gag tcg cgc ctc ggg ggc aca      192
46 Lys Glu Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr
47         50             55             60
49 ggt gcc ttt gag ata gag ata aat gga cag ctg gtg ttc tcc aag ctg      240
50 Gly Ala Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu
51         65             70             75
53 gag aat ggg ggc ttt ccc tat gag aaa gat ctc att gag gcc atc cga      288
54 Glu Asn Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg
55         80             85             90
57 aga gcc agt aat gga gaa acc cta gaa aag atc acc aac agc cgt cct      336
58 Arg Ala Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro
59 95             100             105             110
61 ccc tgc gtc atc ctg tga                                          354
62 Pro Cys Val Ile Leu
63         115
66 <210> SEQ ID NO: 2
67 <211> LENGTH: 115
68 <212> TYPE: PRT

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69 <213> ORGANISM: Homo sapiens
71 <400> SEQUENCE: 2
72 Met Ser Gly Glu Pro Gly Gln Thr Ser Val Ala Pro Pro Pro Glu Glu
73   1           5           10           15
74 Val Glu Pro Gly Ser Gly Val Arg Ile Val Val Glu Tyr Cys Glu Pro
75           20           25           30
76 Cys Gly Phe Glu Ala Thr Tyr Leu Glu Leu Ala Ser Ala Val Lys Glu
77           35           40           45
78 Gln Tyr Pro Gly Ile Glu Ile Glu Ser Arg Leu Gly Gly Thr Gly Ala
79           50           55           60
80 Phe Glu Ile Glu Ile Asn Gly Gln Leu Val Phe Ser Lys Leu Glu Asn
81   65           70           75           80
82 Gly Gly Phe Pro Tyr Glu Lys Asp Leu Ile Glu Ala Ile Arg Arg Ala
83           85           90           95
84 Ser Asn Gly Glu Thr Leu Glu Lys Ile Thr Asn Ser Arg Pro Pro Cys
85           100          105          110
86 Val Ile Leu
87           115
90 <210> SEQ ID NO: 3
91 <211> LENGTH: 518
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapiens
95 <400> SEQUENCE: 3
96 gggccgcgat gagcgtagcc ggggcagacg tccgtagcgc cccctcccga ggaggtcgag 60
97 ccgggcagtg ggggtccgcat cgtggtggag tactgtgaac cctgcggctt cgaggcgacc 120
98 tacctggagc tggccagtgc tgtgaaggag cagtatccgg gcatcgagat cgagtcgcgc 180
99 ctcggggggca caggtgcttt gagatagaga taaatggaca gctggtgttc tccaagctgg 240
100 agaatggggg ctttccctat gagaaagatc tcattgagge catccgaaga gccagtaatg 300
101 gagaaaccct agaaaagatc accaacagcc gtccctccctg cgtcctcctg tgactgcaca 360
102 ggactctggg ttctgtctct gttctggggg ccaaaccctg gtctcccttt ggtcctgctg 420
103 ggagctcccc tgcctctttc acctacttag ctcttagca aagagacact ggcctccact 480
104 ttgccctttg ggtacaaaga aggaatagaa gattccgt 518
107 <210> SEQ ID NO: 4
108 <211> LENGTH: 621
109 <212> TYPE: DNA
110 <213> ORGANISM: Homo sapiens
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: (14)..(15)
115 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
117 <220> FEATURE:
118 <221> NAME/KEY: misc_feature
119 <222> LOCATION: (24)..(24)
120 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
122 <220> FEATURE:
123 <221> NAME/KEY: misc_feature
124 <222> LOCATION: (28)..(28)
125 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
127 <220> FEATURE:

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128 <221> NAME/KEY: misc_feature
129 <222> LOCATION: (31)..(31)
130 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (33)..(33)
135 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
137 <220> FEATURE:
138 <221> NAME/KEY: misc_feature
139 <222> LOCATION: (491)..(491)
140 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
142 <220> FEATURE:
143 <221> NAME/KEY: misc_feature
144 <222> LOCATION: (535)..(535)
145 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
147 <220> FEATURE:
148 <221> NAME/KEY: misc_feature
149 <222> LOCATION: (557)..(557)
150 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
152 <220> FEATURE:
153 <221> NAME/KEY: misc_feature
154 <222> LOCATION: (565)..(565)
155 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
157 <220> FEATURE:
158 <221> NAME/KEY: misc_feature
159 <222> LOCATION: (574)..(574)
160 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
162 <220> FEATURE:
163 <221> NAME/KEY: misc_feature
164 <222> LOCATION: (588)..(588)
165 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
167 <220> FEATURE:
168 <221> NAME/KEY: misc_feature
169 <222> LOCATION: (595)..(595)
170 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
172 <220> FEATURE:
173 <221> NAME/KEY: misc_feature
174 <222> LOCATION: (606)..(606)
175 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
177 <400> SEQUENCE: 4
W--> 178 ggggcccagag cggnnbcccag cgahtgagg nahgcccggga cagacgtccg tagcgcccc 60
179 tcccagaggag gtcagccgg gcaagtgggt ccgcatcgtg gtggagtact gtgaaccctg 120
180 cggcttcgag gctacctacc tggagctggc cagtgtctgt aaggagcagt atccgggcat 180
181 cgagatcgag tcgcgcctcg ggggcacagg tgctttgaga tagagataaa tggacagctg 240
182 gtgtttccca agctggagaa tgggggcttt ccctatgaga aagatctcat tgaggccatc 300
183 cgaagagcca gtaatggaga aaccctagaa aagatcacca acaagcccgt cctcccttgc 360
184 gtcacacctgt gacttgacaa ggactctggg gttcctgtc tgttctgggg gtccaaacct 420
185 tggctctcct ttggctctgc tgggaagctc cccctgcctc tttcccctaa ttagctctta 480
W--> 186 agcaaagaga nccctggcctc caatttgccc tttgggtaca aagaaggaat agaanaatccg 540

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W--> 187 tggccttggg gaaggaaaa aaatnccat aaanitttca ggcaactnaa acctttcca 600
W--> 188 ggtaantccc agaaaaccaa t 621
191 <210> SEQ ID NO: 5
192 <211> LENGTH: 683
193 <212> TYPE: DNA
194 <213> ORGANISM: Homo sapiens
196 <220> FEATURE:
197 <221> NAME/KEY: misc_feature
198 <222> LOCATION: (608)..(608)
199 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
201 <400> SEQUENCE: 5
202 gagccggggc agacgtccgt agcgccccct cccgaggagg tcgagccggg cagtgggggtc 60
203 cgcatcgttg tggagtactg tgaaccctgc ggcttcgagg cgacctacct ggagctggcc 120
204 agtgcgtgta aggagcagta tccgggcatc gagatcgagt cgcgcctcgg gggcacaggt 180
205 gcctttgaga tagagataaa tggacagctg gtgttctcca agctggagaa tgggggcttt 240
206 ccctatgaga aagatctcat tgaggccatc cgaagagcca gtaatggaga aacctagaa 300
207 aagatcacca acagccgtcc tccctgcgtc atcctgtgac tgcacaggac tctgggttcc 360
208 tgetctgttc tggggcccaa accttgggtc ccctttgggtc ctgctgggag cttccccctgc 420
209 ctctgtcccc tacttagctc cttagcaaag agaccctggc ctccactttg ccctttgggt 480
210 acaaagaagg aatagaagat tccgtggcct tgggggcagg agagagacac tctccatgaa 540
211 cacttctcca gccacctcat acccccttcc cagggttaagt gcccacgaaa gcccagttca 600
W--> 212 ctcttcgact cggtaatacc tgtctgatgc cacagatttt atttattctc ccctaacc 660
213 gggcaatgtc agctattgcc agt 683
216 <210> SEQ ID NO: 6
217 <211> LENGTH: 490
218 <212> TYPE: DNA
219 <213> ORGANISM: Homo sapiens
221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (12)..(12)
224 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
226 <220> FEATURE:
227 <221> NAME/KEY: misc_feature
228 <222> LOCATION: (17)..(17)
229 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
231 <220> FEATURE:
232 <221> NAME/KEY: misc_feature
233 <222> LOCATION: (23)..(24)
234 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
236 <220> FEATURE:
237 <221> NAME/KEY: misc_feature
238 <222> LOCATION: (65)..(67)
239 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
241 <220> FEATURE:
242 <221> NAME/KEY: misc_feature
243 <222> LOCATION: (432)..(432)
244 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
246 <220> FEATURE:
247 <221> NAME/KEY: misc_feature

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248 <222> LOCATION: (454)..(454)
249 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
251 <220> FEATURE:
252 <221> NAME/KEY: misc_feature
253 <222> LOCATION: (461)..(461)
254 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
256 <220> FEATURE:
257 <221> NAME/KEY: misc_feature
258 <222> LOCATION: (490)..(490)
259 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
261 <400> SEQUENCE: 6
W--> 262 gattcggcac ggggcnagg gannggggca gacgtccgta gcgccccctc ccgaggaggt 60
W--> 263 cgagnnnggc agtgggggtcc gcacgtgtgt ggagtactgt gaacctgtcg gcttcgagggc 120
264 gacctacctg gagctggcca gtgctgtgaa ggagcagtat ccgggcacgc agatcagatc 180
265 gcgcctcggg ggcacaggtg ctttgagata gagataaatg gacagctggt gttctccaag 240
266 ctggagaatg ggggctttcc ctatgagaaa gatctcattg aggccatccg aagaagccag 300
267 taatggagaa accctagaaa agatcaccaa caagcccgtc ctccctgcgt catcctgtga 360
268 ctgcacagga ctctgggttc ctgctctgtt ctgggggtcca aaccttggtc tccctttggt 420
W--> 269 cctgctggga gttccccctg cctctttccc ctanttagct ncttagcaaa gagacctgg 480
W--> 270 cctccactnn 490
273 <210> SEQ ID NO: 7
274 <211> LENGTH: 557
275 <212> TYPE: DNA
276 <213> ORGANISM: Homo sapiens
278 <220> FEATURE:
279 <221> NAME/KEY: misc_feature
280 <222> LOCATION: (28)..(28)
281 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
283 <220> FEATURE:
284 <221> NAME/KEY: misc_feature
285 <222> LOCATION: (504)..(504)
286 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
288 <220> FEATURE:
289 <221> NAME/KEY: misc_feature
290 <222> LOCATION: (527)..(527)
291 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
293 <220> FEATURE:
294 <221> NAME/KEY: misc_feature
295 <222> LOCATION: (545)..(545)
296 <223> OTHER INFORMATION: n is any nucleotide of a, t, g or c
298 <400> SEQUENCE: 7
W--> 299 cgtccgtagc gccccctccc gaggagncct gagccgggca gtgggggtccg catcgtgggtg 60
300 gagtactgtg aacctgtcgg cttcgagggc acctacctgg agctggccag tgctgtgaag 120
301 gagcagtatc cgggcacatg gatcagatcg cgcctcgggg gcacaggtgc tttgagatag 180
302 agataaatgg acagctgggtg ttctccaagc tggagaatgg gggctttccc tatgagaaaag 240
303 atctcattga ggccatccga agagccagta atggaagaaa ccctagaaaaa gatcaccaac 300
304 agccgtccctc ccttgctgca tctgtgtact tgcacaggac tctgggttcc tgctctgttc 360
305 ttgggggtcca aacctttggt ctccctttgg tctgtctggg aagctcccc tgcccttttt 420
306 cccctactta agctccttta gcaaagaaga acctgggcct tccacttttg cccttttggg 480

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Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

## VERIFICATION SUMMARY

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Input Set : A:\seqlist\_1821 0040001.txt

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L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:186 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:187 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:212 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5  
L:262 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:263 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:269 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:270 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6  
L:299 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7  
L:357 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:364 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8  
L:465 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:466 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13  
L:520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:528 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:530 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14  
L:584 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:585 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:590 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15  
L:624 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:630 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16  
L:699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:704 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:705 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:706 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17  
L:720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18  
L:739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19  
L:794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22  
L:845 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:850 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23  
L:904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:910 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:911 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24  
L:937 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:938 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25  
L:964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:970 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26  
L:1014 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:1020 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27  
L:1021 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27

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L:1059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28

L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28